| Index f Claims |  |          |        |          |          |          |          |           |          |           |            |          | Applicati n/Control N . |          |           |             |           |         |              |          |          |           |          | Applicant( )/Patent und r<br>Reexaminati n |          |          |          |              |         |          |             |          |   |
|----------------|--|----------|--------|----------|----------|----------|----------|-----------|----------|-----------|------------|----------|-------------------------|----------|-----------|-------------|-----------|---------|--------------|----------|----------|-----------|----------|--|----------|----------|----------|--------------|---------|----------|-------------|----------|---|
|                |  |          |        |          |          |          |          |           |          |           |            |          | 10/686,480              |          |           |             |           |         |              |          |          |           |          | NISHIMURA ET AL.                           |          |          |          |              |         |          |             |          |   |
|                |  |          |        |          |          |          |          |           |          |           |            |          |                         | Examiner |           |             |           |         |              |          |          |           |          | Art Unit                                   |          |          |          |              |         | <u> </u> | <del></del> |          |   |
|                | FIRETIST TATIL CONTR. C |          |        |          |          |          |          |           |          |           |            |          |                         |          | Tony Chuo |             |           |         |              |          |          |           |          |  | 1746     |          |          |              |         |          |             |          |   |
|                | √ R j cted   |          |        |          |          |          |          |           |          |           |            |          |                         |          |           | al) Non-Ele |           |         |              |          |          |           |          |  | П        | Appeal   |          |              |         |          |             |          |   |
|                | <del>                                     </del>   |          |        |          |          |          |          |           |          |           | Cancelled  |          |                         |          |           | N NON-ER    |           |         |              |          | -E16     | Cte       |          |  | A        |          |          |              |         |          |             |          |   |
|                |  |          | =      | A        | Allowed  |          |          |           |          | +         | Restricted |          |                         | )        |           |             | Ŀ         |         | Interference |          |          | <b>.e</b> | ]        | 0  | Objected |          |          |              |         |          |             |          |   |
| 1              | Cla  |          |        |          |          |          | Date     |           |          | _         | Cla        |          | aim                     |          |           |             | Da        | te      | te           |          |          | Claim     |          | im   |          | Date     |          |              |         |          |             | -        |   |
|                | Final  | Original | 90/8/E |          | ļ        |          |          |           | ٠        |           |            | Final    | Original                |          |           |             |           |         |              |          |          |           | Finel    | Original                                   |          |          |          |              |         |          |             |          |   |
|                |  |          | 3      | $\sqcup$ | 4        | _        | 4        | 4         | 4        | 4         | -          |          | 51                      | $\vdash$ | 4         | +           | +         | 4-      | ╀            | H        | $\dashv$ | F         |          | 101  | Н        | +        |          | ╀            | +       | ┢        | Н           | $\dashv$ |   |
|                | _  | 1 2      | ςK     | H        | $\dashv$ | ┪        | $\dashv$ | $\dashv$  | ᅥ        | $\dashv$  | 1          |          | 52                      |          | _         | 士           | 土         | 土       |              | $\Box$   | ╛        | L         |          | 102  |          | 1        |          | 士            | 上       |          |             | $\Box$   |   |
|                |  | 3        | 7      |          | _        | $\Box$   |          | 1         | $\Box$   | $\Box$    | ]          |          | 53                      | П        | $\Box$    | 1           | Ţ         | $\bot$  | $\downarrow$ |          | $\Box$   | F         | _        | 103<br>104                                 | $\vdash$ | 4        | +        | +            | +       | ╄-       | Н           | $\dashv$ |   |
|                |  | 5        | 5      | H        | -        | +        |          | $\dashv$  | -        | -         | -          | ⊩        | 54<br>55                | ℍ        | -+        | +           | ╁         | ╫       | +            | ╂┤       | Н        | -         |          | 105  | Н        | +        | 十        | +            | +       | $\vdash$ | $\vdash$    | 一        |   |
|                | _  | 6        | V      | H        | 7        | 7        | 7        | $\dashv$  | 寸        | ヿ         | $\neg$     |          | 56                      | 口        | 士         | 1           | İ         | 土       | 上            |          |          |           |          | 106  |          | ゴ        |          | I            | Ι       | 匚        |             |          |   |
|                |  | 7        | V      |          | $\Box$   | $\Box$   | $\Box$   | $\exists$ | $\Box$   | $\exists$ | 7          |          | 57                      | П        | $\dashv$  | $\perp$     | 1         | 1       | ╀            | Н        | 4        | -         |          | 107<br>108                                 | $\sqcup$ | +        | +        | ╀            | +       | ⊢        | Н           | $\vdash$ |   |
|                |  | 8        | 7      | Н        | _        | $\dashv$ | +        | +         | $\dashv$ | -+        |            | _        | 58<br>59                | $\vdash$ | $\dashv$  | ╁           | +         | ╫       | ╀╌           | Н        | $\dashv$ | ┢         |          | 109  | $\vdash$ | ╅        | +        | +            | +       | ╁        | Н           |          |   |
|                |  | 10       | v      | ۲        | $\dashv$ | ┪        | ┪        | ┪         | $\dashv$ | 十         | -          |          | 60                      | H        | 十         | $\pm$       | 1         | $\top$  | 1            | ㅂ        | $\Box$   | Ė         |          | 110  |          | 1        |          | 1            | 土       |          |             |          |   |
|                |  | 11       | V      |          |          |          |          | コ         |          | $\Box$    |            |          | 61                      |          |           | $\top$      | I         | I       | I            | П        |          |           |          | 111  | П        | $\bot$   | 1        | $\downarrow$ | $\perp$ |          | Ш           | Ш        |   |
|                |  | 12       | V      |          | $\dashv$ | _        |          | 4         | 4        | $\dashv$  | _          | <u> </u> | 62                      | Н        | $\dashv$  | +           | +         | +       | ╁╌           | $\vdash$ | Н        | ┝         |          | 112<br>113                                 | ╂╌┼      | +        | +        | ╀            | ╁       | ╁        | H           | Н        |   |
|                |  |          | 20     | Н        | $\dashv$ | 4        | $\dashv$ | $\dashv$  | ┥        | $\dashv$  |            | ⊩        | 63<br>64                | Н        | $\dashv$  | ┿           | ┿         | ╫       | ╁            | Н        | Н        | ŀ         |          | 114  | $\vdash$ | +        | -        | +            | ╁       | ╁        | Н           | П        |   |
|                |  | 14<br>15 | 6      | Н        | ᅥ        | ┪        | ┪        | ᅥ         | ┪        | $\dashv$  | ┨          |          | 65                      | ╁┤       | +         | 十           | 十         | +       | T            | П        |          | t         |          | 115  |          | 1        |          | İ            | 士       |          |             |          |   |
|                |  | 16       | V      |          |          |          |          | コ         |          |           | ゴ          |          | 66                      | П        | $\Box$    | $\Box$      | I         |         | I            | $\Box$   |          | F         |          | 116  | Ц        |          | $\perp$  | 4            | $\bot$  | _        | Ш           | Щ        |   |
|                |  | 17       | V      |          | $\dashv$ | _        | _        |           |          | 4         | 4          |          | 67                      | Н        | $\dashv$  | +           | +         | +       | ╀            | $\vdash$ | Н        | ╁         |          | 117<br>118                                 | $\vdash$ | +        | +        | +            | +       | ╂-       | Н           | Н        |   |
|                | <u> </u>   | 18<br>19 | ╁╾     | Н        | $\dashv$ | $\dashv$ | ┥        | ┥         | $\dashv$ |           |            | $\vdash$ | 68<br>69                | $\vdash$ | $\dashv$  | +           | $\dagger$ | +       | 十            | Н        | Н        | H         | -        | 119  | $\vdash$ | +        | $^{+}$   | $^{\dagger}$ | ╅       | 十一       | П           | П        |   |
|                |  | 20       | 一      | Н        | $\dashv$ |          | ┪        | $\exists$ |          |           |            |          | 70                      |          |           |             | 1         | 1       | 上            |          |          |           | $\neg$   | 120  |          | $\Box$   |          | I            |         |          |             |          | ı |
|                |  | 21       |        |          |          | $\Box$   |          | $\Box$    |          |           | 7          |          | 71                      | $\sqcup$ |           | _           | 4         | +       | 4-           | Ш        | Н        | ╌         |          | 121  | $\sqcup$ | +        | -        | +            | +       | ╀        | Н           | Н        | İ |
|                | <u> </u>   | 22       | H      | Н        | $\dashv$ | 4        |          | $\dashv$  | -        | -         |            | -        | 72<br>73                | Н        | $\dashv$  | +           | ╁         | ╌       | ╁╴           | Н        | Н        | ŀ         | $\dashv$ | 122<br>123                                 | Н        | +        | ╅        | +            | ╁       | ┢        | ╁           | Н        | ı |
|                | ┝╌   | 23<br>24 | ╀╴     | Н        | $\dashv$ | ᅱ        | ┥        | $\dashv$  | Н        | $\dashv$  | ᅱ          | $\vdash$ | 74                      | Н        | +         | +           | 十         | +       | +            | Н        | Н        | r         | 一        | 124  | H        | 1        | $\top$   | T            | 1.      |          |             |          | ı |
|                | _  | 25       |        |          | $\Box$   | ┪        |          |           |          |           | コ          |          | 75                      | П        |           |             | 1         |         | I            |          |          | · [       |          | 125  |          | $\Box$   | $\top$   | Ţ            | Ţ       | $\perp$  |             |          | İ |
|                |  | 26       |        | П        | $\Box$   | $\Box$   | Ц        |           |          |           | _          | $\vdash$ | 76                      | Ц        | _         | 4           | 4         | 4       | +            | Н        | Н        | ┝         |          | 126<br>127                                 | H        | $\dashv$ |          | +            | +       | ╁        | $\vdash$    | Н        | i |
|                | <u> — </u>   | 27<br>28 | 1      | Н        | Н        |          | -        | $\dashv$  | _        | $\dashv$  | $\dashv$   | $\vdash$ | 77<br>78                | ╀┤       | -         | +           | ╫         | +       | +            | ${f H}$  | Н        | ŀ         | $\dashv$ | 128  | ╂╌╢      | +        | $\dashv$ | +            | +       | +        | H           | Н        |   |
|                | $\vdash$   | 29       | +      | Н        | $\dashv$ | $\dashv$ | $\dashv$ | Н         | $\dashv$ | H         | $\dashv$   | Н        | 79                      | H        |           | $\top$      | †         | 士       | 士            | $\Box$   |          | t         |          | 129  |          | ゴ        | 土        | İ            |         |          | $\Box$      |          |   |
|                |  | 30       | L      |          |          | ╛        |          |           |          | ╛         | コ          |          | 80                      | П        |           | $\bot$      | T         | I       | T            | $\Box$   | $\Box$   | F         | 耳        | 130  | П        | I        | Ţ        | 1            | $\perp$ | $\perp$  | $\Box$      | Ш        |   |
|                |  | 31       | L      |          | Ш        |          |          |           | Щ        |           | 4          | <u></u>  | 81                      | ▙        | $\dashv$  | -           | +         | +       | +-           | Н        | Н        | ┢         |          | 131<br>132                                 | $\vdash$ | +        | -+       | +            | ╫       | ╀        | $\vdash$    | Н        |   |
|                |  | 32       | ╀      | -        | $\dashv$ | $\dashv$ | _        | $\dashv$  | Н        | H         | -          | $\vdash$ | 82                      | Н        | $\dashv$  | +           | +         | ╂       | ┿            | Н        | Н        | H         | $\dashv$ | 133  |          | ┪        | +        | 十            | 十       | 十        | ╅┪          | Н        |   |
|                |  | 34       | ╁      | ╁        | Н        |          | _        |           | Н        | H         | $\dashv$   | $\vdash$ | 84                      |          | 寸         | 1           | t         | 士       |              |          |          | E         |          | 134  |          |          |          | 1            | 工       | 上        |             | 口        |   |
|                |  | 35       |        |          |          |          |          |           |          |           |            |          | 85                      |          | $\Box$    | $\Box$      | Ţ         | $\perp$ | Ţ            | $\Box$   | П        |           |          | 135  | Ш        | _        | 4        | 4            | $\bot$  | ↓_       | ╀           | Н        |   |
|                |  | 36       | L      |          | Н        | Ц        | Ц        |           |          | Н         | 4          | <u> </u> | 86                      | $\vdash$ | -         | +           | +         | +       | ╀            | ╀        | Н        | ┝         | $\dashv$ | 136<br>137                                 | $\vdash$ | 4        | ┽        | ╁            | ╁       | ╫        | ╂─          | Н        |   |
|                | <u> </u>   | 37<br>38 | ╀      | ├        | Н        | $\dashv$ | Н        |           | Н        | Н         | $\dashv$   |          | 88                      | +        | $\dashv$  | +           | +         | ╅       | ╁╴           | $\vdash$ | Н        | ┢         |          | 138  | Н        | 7        | 十        | +            | +       | t        | ╅           | Н        |   |
|                | <del></del>  | 39       | 十      | $\vdash$ | H        | $\dashv$ | Н        | H         | H        | H         | $\dashv$   | $\vdash$ | 89                      |          | $\vdash$  | +           | $\dagger$ | ╁       | 士            | $\perp$  |          | t         |          | 139  |          |          | 土        | 土            | 工       |          |             |          |   |
|                |  | 40       | L      |          |          |          |          |           |          | 口         |            |          | 90                      |          |           | 工           | I         | I       | T            | П        | П        | F         |          | 140  | П        | $\Box$   | 1        | 1            | $\perp$ | L        | 4           | Ш        |   |
|                |  | 41       | L      |          | П        |          |          | Ц         |          | Ц         | _          |          | 91                      | $\sqcup$ | Щ         | 4           | +         | +       | +            | ╀        | Н        | F         | -        | 141  | H        | 4        | +        | +            | +-      | +        | ╀           | Н        |   |
|                | L  | 42       |        | <b>├</b> | Н        | Н        | Н        | Н         | Н        | Н         | 4          | -        | 92                      |          | $\dashv$  | +           | +         | ╬       | +            | ╁        | Н        | ŀ         |          | 142  | ╂╌┨      | $\dashv$ | +        | ╁            | +       | +        | ╁╌          | Н        |   |
|                | <del> </del>   | 43<br>44 | ╁      | -        | Н        | $\dashv$ | Н        | H         | Н        | Н         | $\dashv$   | $\vdash$ | 94                      |          | $\vdash$  | $\dashv$    | +         | +       | +            | $\top$   | Н        | ŀ         |          | 144  |          | _        | 士        | 士            | 士       | İ        |             |          |   |
|                | $\vdash$   | 45       | 十      | $\vdash$ | Н        |          | Н        | H         | П        | H         | _          |          | 95                      |          |           | 士           | I         | 土       | 工            |          |          |           |          | 145  |          | コ        |          | 1            | T       | L        |             |          |   |
|                |  | 46       |        |          |          |          |          |           |          | П         |            | 匚        | 96                      |          |           | Д.          | 4         | Ţ       | $\bot$       |          | Ц        | L         |          | 146  | $\sqcup$ | _        | _        | +            | +       | $\perp$  | ╀           | $\vdash$ |   |
|                | 匚  | 47       | 匚      | L        | Ш        |          |          | Ц         | Ш        | Н         | _          | <b>—</b> | 97                      | $\vdash$ | Н         | 4           | -         | 4-      | 4-           | ╀        | $\vdash$ | ŀ         |          | 147  | Н        | $\dashv$ |          | +            | +       | ╂        | ╀           | Н        |   |